



**The 2006 Batteries for Advanced Transportation Technologies  
Annual Peer Review  
June 6-8, 2006**

*Lawrence Berkeley National Laboratory*  
Berkeley, California  
Building 66 Auditorium

**Tuesday, June 6**

**Special Plenary Session: The Path from Bench-Top to Marketplace**

<b>Time</b>	<b>Speaker</b>	<b>Presentation Title</b>
4:00 pm	John Newman (UCB)	Introduction
4:05	Tien Q. Duong (DOE)	Advanced Energy Initiative and plug-in hybrids
4:15	Yet-Ming Chiang (MIT)	Case Study for Rapid Adoption of Basic Research Results in New Battery Technology
5:00	Per Onnerud (Boston Power)	Leveraging US Based Innovation in Li-ion Materials Development
5:45		Open Discussion
6:00		Reception and poster session
7:30		<b>Adjourn</b>

**Wednesday, June 7**

**BATT Review**

<b>Time</b>	<b>Speaker</b>	<b>Presentation Title</b>
8:00 am		Registration
8:30	Richard Russo (LBNL)	Welcome and introductions
8:40	David Howell (DOE)	Purpose/guidelines of review
8:50	Venkat Srinivasan (LBNL)	BATT program description

**Session 1 : Alloys and Electrolytes for High Energy Systems**

9:05	Michael Thackeray (ANL)	Intermetallics and Sn-Co ternary alloys
9:15	Stanley Whittingham (SUNY-Binghamton)	Sn-Co alloys; MnO anodes
9:25	Darryl DesMarteau (Clemson) Stephen Creager	Ionic melts
9:35	Nitash Balsara (UCB)	Block co-polymers
9:45		Discussion
10:05-10:25		<b>Break</b>

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**Session 2: Characterization of Electrolytes and Interphases**

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10:25	Alan West (Columbia)	Cycling lithium metal
10:35	Philip Ross (LBNL)	Transport through the SEI
10:45	Grant Smith (Utah) Oleg Borodin	Ionic transport
10:55	John Newman (UCB)	Electrolyte transport and system design
11:05	John Kerr (LBNL)	Gels and liquid electrolytes
11:15		Discussion

Break-out for Poster Session Discussions (Reviewers and PIs only)

11:35-12:15		½ of the reviewers meet w/Session 1; others meet w/Session 2
12:15-1:00		<b>Lunch</b>
1:00-1:40		Reviewers switch Sessions

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**Session 3: The Working of the LiFePO<sub>4</sub> Electrode**

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1:40	Thomas Richardson (LBNL)	Phase evolution
1:50	Robert Kostecki (LBNL)	Graphitic carbon coatings
2:00	Venkat Srinivasan (LBNL) John Newman (UCB)	Conduction
2:10	Marca Doeff (LBNL)	LiFePO <sub>4</sub> and Mn-based materials
2:20	John Goodenough (Texas, Austin)	Enhanced coated materials
2:30		Discussion
2:50		<b>Break</b>

Break-out for Poster Session Discussions (Reviewers and PIs only)

3:10		½ of the reviewers meet w/Session 3
3:50		Rest of reviewers meet w/Session 3
4:30		<b>Adjourn</b>

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**Thursday, June 8**

<b>Time</b>	<b>Speaker</b>	<b>Presentation Title</b>
8:00 am		Attendee arrival
<b>Session 4: Synthesis and Characterization of Cathode Materials</b>		
8:30	Stanley Whittingham (SUNY-Binghamton)	LiFePO <sub>4</sub> and NMC materials
8:40	Arumugam Manthiram (Texas, Austin)	Mn-spinel materials
8:50	Michael Thackeray (ANL)	Mn-rich layered materials
9:00	Clare Grey (SUNY- SB) Gerbrand Ceder (MIT)	Layered materials
9:15	Won-Sub Yoon (BNL) Xiao-Qing Yang	Layered materials
9:25		Discussion
<b>Session 5: Cell Analysis</b>		
9:45	Vincent Battaglia (LBNL)	Electrode construction
9:55	Karim Zaghib (Hydro Québec)	Cells with WSBs and gels
10:05		<b>Break</b>
10:25	Dean Wheeler (BYU) John Harb	Conductive additives
10:35	Ann Marie Sastry (Michigan)	Electronic conduction
10:45	Thomas Devine (UCB)	Current-collector corrosion
10:55		Discussion
Break-out for Poster Session Discussions (Reviewers and PIs only)		
11:15		½ of the reviewers meet w/Session 4; others meet w/Session 5
11:55		Reviewers switch Sessions
12:35-1:15		<b>Lunch</b>
Closed Session		
1:15		DOE meets with reviewers and lab management
2:45		<b>Adjourn</b>